Below are the problem statements and its respective solutions.

- 1. Total revenue per customer.
- 2. Average order value per product category.
- 3. Total number of orders by customer demographics (e.g., age, location).
- 4. Average customer rating per product.
- 5. Identify customers who have the highest potential for up-sell or cross-sell opportunities based on their past purchase behavior (e.g., frequent purchasers and high-value customers).

Total revenue per customer. SELECT		Customer Name	Total Revenu	-
	<b>&gt;</b>	Michael Brown	1650.00	
c.name AS 'Customer Name',		John Doe	1400.00	
SUM(total_amount) AS 'Total Revenu'		Emily Davis	1350.00	
FROM		Olivia Martinez	1350.00	
orders o		Amy White	1070.00	
JOIN	-	Jane Smith	1050.00	
		James Wilson Robert Clark	870.00 800.00	
customers c ON o.customer_id = c.customer_id		David Lee	650.00	
GROUP BY c.name		Susan Taylor	650.00	
ORDER BY SUM(total_amount) DESC;		Laura Walker	500.00	
Average order value per product category.	_	Product	Avg order	
SELECT		Category	value	
p.category AS 'Product Category',	▶	Appliances	461.11	
ROUND(AVG(total amount), 2) AS 'Avg order value'		Electronics	368.82	
FROM		Furniture	360.00	
orders o		Accessories Clothing	350.00 175.00	
		Clothing	1/5.00	
JOIN				
order_items oi ON o.order_id = oi.order_id				
JOIN				
<pre>products p ON oi.product_id = p.product_id</pre>				
GROUP BY category				
ORDER BY AVG(total_amount) DESC;				
Total number of orders by customer demographics (e.g., age, location).		Customer Age	Customer Location	Total Orders
SELECT	<b>&gt;</b>	34	New York	4
		39	Los Angeles	3
Y (12112511111)		32	Chicago	3
c hirthdate		36	San Francisco	3
c.birthdate,		30	San Francisco	
CURRENT_DATE)) AS 'Customer Age',		34	Miami	3
CURRENT_DATE)) AS 'Customer Age', c.location AS 'Customer Location',		34 37	Miami Boston	3
CURRENT_DATE)) AS 'Customer Age', c.location AS 'Customer Location', COUNT(order_id) AS 'Total Orders'		34 37 34	Miami Boston Austin	3
CURRENT_DATE)) AS 'Customer Age', c.location AS 'Customer Location',		34 37	Miami Boston	3
CURRENT_DATE)) AS 'Customer Age', c.location AS 'Customer Location', COUNT(order_id) AS 'Total Orders'		34 37 34	Miami Boston Austin	3
CURRENT_DATE)) AS 'Customer Age',  c.location AS 'Customer Location',  COUNT(order_id) AS 'Total Orders'  FROM		34 37 34	Miami Boston Austin	3
CURRENT_DATE)) AS 'Customer Age',  c.location AS 'Customer Location',  COUNT(order_id) AS 'Total Orders'  FROM  customers c		34 37 34	Miami Boston Austin	3
CURRENT_DATE)) AS 'Customer Age', c.location AS 'Customer Location', COUNT(order_id) AS 'Total Orders' FROM customers c LEFT JOIN		34 37 34	Miami Boston Austin	3
CURRENT_DATE)) AS 'Customer Age',  c.location AS 'Customer Location',  COUNT(order_id) AS 'Total Orders'  FROM  customers c  LEFT JOIN  orders o ON c.customer_id = o.customer_id		34 37 34	Miami Boston Austin	3
CURRENT_DATE)) AS 'Customer Age',  c.location AS 'Customer Location',  COUNT(order_id) AS 'Total Orders'  FROM  customers c  LEFT JOIN  orders o ON c.customer_id = o.customer_id  GROUP BY c.location , (TIMESTAMPDIFF(YEAR,		34 37 34	Miami Boston Austin	3

